PATENT COOPERATION TREATY

INTERN		CHING AUTH	IORITY				
INTERNATIONAL SEARCHING AUTHORITY To: GEOFFREY L. MELNICK G.E. EHRLICH (1995) LTD. 11 MENACHEM BEGIN STREET RAMAT-GAN, 52 524 ISRAEL				PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
					(PCT Rule 43bis.1)		
Ĺ		-		Date of mailing			
Applicant's or agent's file reference				(day/month/year) FOR FURTHER ACTION			
29153				See paragraph 2 below			
International application No. Internati			International filing date	(day/month/year)	th/year) Priority date (day/month/year)		
PCT/ILO		Service (TPC)	17 February 2005 (17.02	2005) 17 February 2004 (17.02.2004)			
i			or both national classificat				
IPC: USPC:	A61K 31/715(2 514/53,54,23;53	006.01); A01N 6/17.5.21.55.2	43/04(2006.01);C07H 1	5/00(2006.01)			
Applican	t						
YEDA R	ESEARCH AND	DEVELOPME	ENT CO. LTD.				
1. This	opinion contains i	indications rela	ting to the following items	s:			
\boxtimes	Box No. I Basis of the opinion						
Box No. II Priority							
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
	Box No. IV Lack of unity of invention						
	Box No. V	d to novelty, inventive step or industrial statement					
	Box No. VI	Certain docur					
	Box No. VII	Certain defec	ts in the international appl	lication			
Box No. VIII Certain observations on the international application							
2 FHRT	THER ACTION			••			
If a de Interna Author that wi	emand for interna utional Preliminar rity other than thi ritten opinions of	tional preliming Examining sone to be the this Internation	IPEA and the chosen IPI al Searching Authority wi	ept that this doe EA has notified to ill not be so cons.	I be considered to be a written opinion of the s not apply where the applicant chooses an he International Bureau under Rule 66.1bis(b) idered. PEA, the applicant is invited to submit to the		
mailing	of Form PCT/IS	A/220 or before	re the expiration of 22 mo	amenic hetare i	the expiration of 3 months from the date of jority date, whichever expires later.		
For fur	ther options, see	Form PCT/ISA	1/220 .		·		
3. For fur	ther details, see n	otes to Form P	CT/ISA/220.				
Name and r	nailing address of	f the ISA/ US	Date of completion	n of this	Authorized officer		
Co	ail Stop PCT, Attn: mmissioner for Pate		opinion		Devesh Khare A. Roberts for		
D.O. De- 1450			05 September 2006	5 (05.09.2006)	ν		
Csimile No. (571) 273-3201 Telephone No. (571) 272-1600							

Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/IL05/00197

Box No. I Basis of this opinion	
1. With regard to the language, this opinion has been established on the basis of:	
the international application in the language in which it was filed	
a translation of the international application into, which is the language of a translation furnished for the purp international search (Rules 12.3(a) and 23.1(b)).	oses of
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary claimed invention, this opinion has been established on the basis of:	to the
a. type of material	
a sequence listing	
table(s) related to the sequence listing	
b. format of material	
on paper	
in electronic form	
c. time of filing/furnishing	
contained in the international application as filed.	
[]	
filed together with the international application in electronic form.	
furnished subsequently to this Authority for the purposes of search.	
In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has filed or furnished, the required statements that the information in the subsequent or additional copies is identical to the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	been nat in
4. Additional comments:	ļ
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PCT/(C) A22/D N D	- 1

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IL05/00197

	D. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The condus	questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be trially applicable have not been examined in respect of:
	the entire international application
	claims Nos. <u>15-21</u>
becau	se:
	the said international application, or the said claim Nos relate to the following subject matter which does not require an international search (specify):
	the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify):
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify):
\boxtimes	no international search report has been established for said claims Nos. 15-21
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
	furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
ı	furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
ı	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b).
1	meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.
tł	ne tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
	ee Supplemental Box for further details.
rm PCT/IS	A/237 (Box No. III) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL05/00197

1. Statement			
Novelty (N)	Claims	1-14 and 22-54	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-14 and 22-54	No
Industrial applicability (IA)	Claims	1-14 and 22-54	YES
	Claims	NONE	NO

Claims 1-14 and 22-54 lack an inventive step under PCT Article 33(3) as being obvious over US 4,882,318('318) and US 6,750,207 ('207).

The '318 patent teaches heparin and its derivatives useful in the treatment of tumor by inhibiting heparanase activity and thereby decreasing the metastasis of the tumor especially lung cancer (abstract and col.1-2). The '318 patent discloses the dosage of heparin and its derivatives between 50-500 ug/kg/day (claim 1).

The '207 patent teaches pharmaceutical preparations comprising a low molecular weight heparin for the prevention and/or treatment of pathological processes involving the induction of active TNP-a secretion (col.8, lines 64-67). The disaccharide represented by the instant claims is disclosed(col.10, lines 40-45). Various methods of treatment using said disaccharide or heparin is disclosed (col.12).

Claims 1-14 and 22-54 have industrial applicability as defined by PCT Article 33(4).